

March 29, 2005

Mr. George Leyva California Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, CA 94612

Re:

On Site Monitoring Well Destruction Report Former BP Service Station #11146 1096 Oak Grove Road, Concord, California RWQCB File No: 07-0203

Dear Mr. Leyva:

On behalf of the Atlantic Richfield Company, a BP affiliated company; URS Corporation (URS) is submitting this *On Site Monitoring Well Destruction Report* for the above captioned site. The scope of work for this site included the destruction of two recovery wells (RW-2 and RW-3) and four monitoring wells (MW-1 through MW-4). These wells were destroyed due to site closure and upcoming demolition activities. These recovery and monitoring wells are shown in attached Figure 1.

Prior to initiating field activities, URS obtained well destruction permits from the Contra Costa County Department of Environmental Health Services, created a site-specific Health and Safety Plan (HASP) describing hazards associated with the proposed work, and conducted a subsurface utility clearance. The utility clearance included notifying Underground Service Alert (USA) of the pending work a minimum of 48 hours prior to initiating the field investigation, and securing the services of a private utility locating company to confirm the absence of underground utilities at each boring location. Copies of the well abandonment permits are included in Appendix A.

Each of the six wells (MW-1 through MW-4, RW-2 and RW-3) was over-drilled using a hollow-stem auger drill rig to the total depth of the boring. The well box and casings were removed, and with the approval from Contra Costa Environmental Health Department inspector, borehole was grouted from the bottom of the boring to the surface using a tremie pipe. Copies of Monitoring Well logs and Well Completion Report submitted of Department of Water Resources (DWR) are included in Appendix B. Following are the details of the field activities.

Fax: 510.893.3600



Mr. George Leyva March 29, 2005 Page 2 of 2

Personnel Present:

Jacob Henry, URS Geologist, working under the supervision of Syed

Rehan, California Professional Engineer.

Permits:

Contra Costa County Department of Environmental Health Services,

Environmental Health Division Permit #s WP0003904 through

WP00003909

Drilling Company:

Gregg Drilling of Martinez, California (C-57 License # 485165)

Drilling Date:

March 16-17, 2005

Number of Wells:

Six (MW-1 through MW-4, RW-1, and RW-3). RW-1 will be destroyed

at a later date once URS receives access to off site property.

Boring Depths:

20 feet bgs (MW-2 through MW-3); 23 feet bgs (RW-2); 25 feet bgs

(MW-1); 30 feet bgs (RW-3)

Drilling Method:

Drill rig equipped with hollow-stem augers.

Soil and Water Handling:

Soil cuttings produced during drilling activities were drummed in DOT

17H 55-gallon drums. Following waste characterization, soil drums will

be removed from the site.

Trust this document meets with your approval. Please do not he sitate to contact us at (510) 893-3600 with any questions or comments.

Sincerely,

URS CORPORATION

Jacob Henry

Geologist

Project Manager

Enclosures: Figure 1: Site Map

Appendix A: Completed Well Abandonment Permits- Contra Costa County Environmental

Syed Rehan, P.E.

Health Services

Appendix B: Well Completion Reports and Well Logs

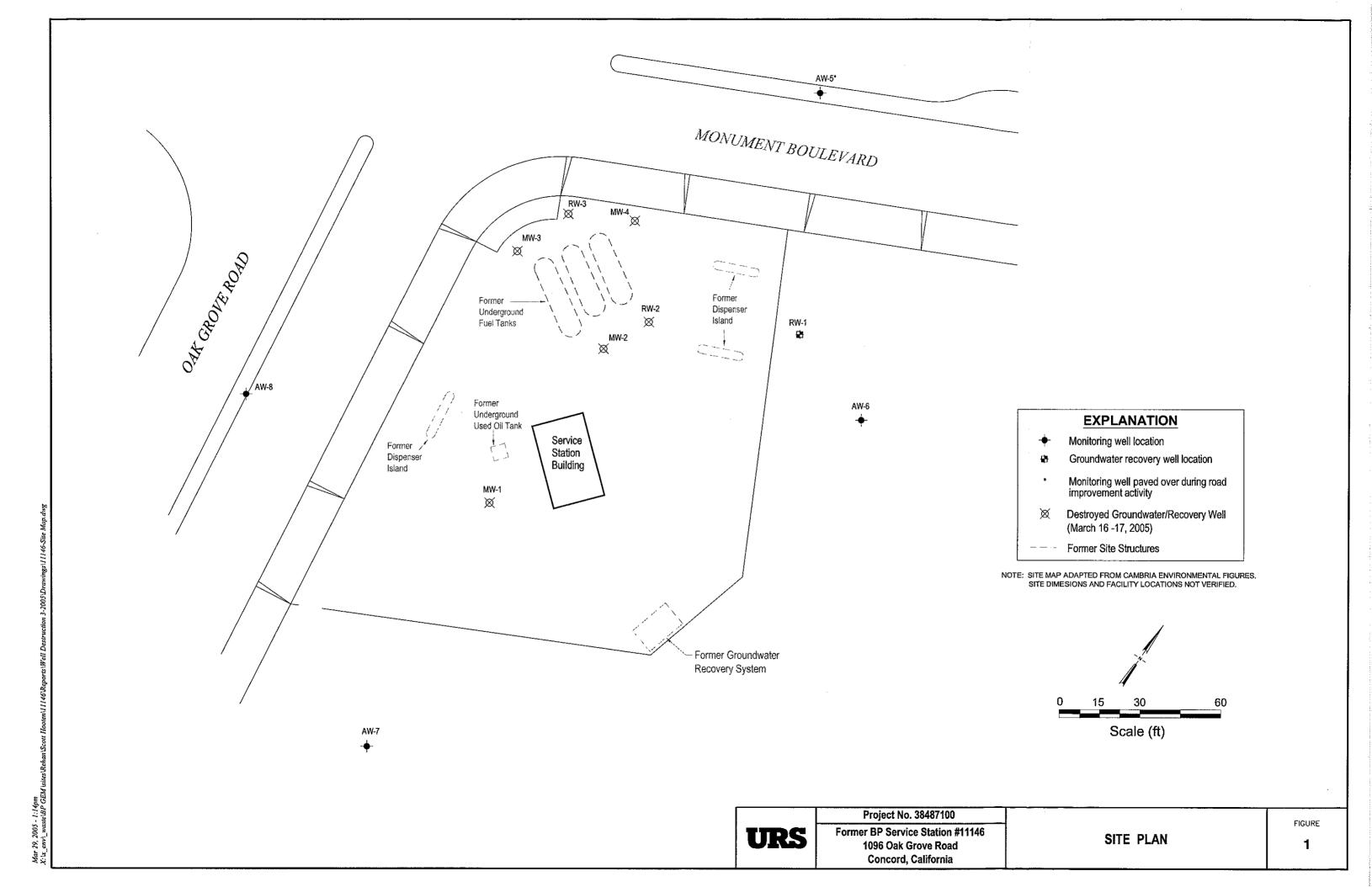
cc: Mr. Kyle Christie, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

Ms. Susan Loyd, Contra Costa County Health Services Division, 4333 Pacheco Boulevard,

Martinez, CA 94533

Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, CA 95818

Figure 1 Site Plan



Appendix A

Contra Costa County Completed Well Abandonment Permits



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520

(925) 646-5225 www.cacoeh.org





Well Permit

WP0003904

PR Number: 221	131	١
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Date Received: 28 FEB 05

Permit Approved/Issued by:

PE Number: 4368

Permit Number: 05M-1208

Environmental Health Specialist

Date Issued:

NEW WELL

() SOIL BORINGS

WEB ABANDONNENDANA

REPAIR

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

PROJECT SITE INFORMATION

Site Address: 1096 OAK GROVE RD, CONCORD

APN: 129-170-017

Lot/Parcel #:

Subdivision #:

Minor Subdivision #:

DRILLER / CONSULTANT INFORMATION

Driller: GREGG DRILLING

Phone #: 925-313-5800

Consultant: URS

Phone #: 510-893-3600

Contact Person: CHRIS PRUNER

FAX#: 925-313-0302

Contact Person:

FAX#: 510.874-3268

LEGAL OWNER INFORMATION

Legal Owner Name: CONOCOPHILLIPS / LIZ SEWELL

Owner Address: 76 BROADWAY

City/State/Zip: SACRAMENTO, CA 95818

Phone #: 916-558-7604

Alternate Phone #:

Contact the Contra Costa County Environmental Health Division appointment desk and obtain a confirmed appointment time and date prior to any drilling construction or destruction of a well. Voice mall messages are not acceptable. The appointment desk sends confirmation via telephone or fax.

Well drillers must posses a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

WELL PERMIT CONDITIONS:

1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days

2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

3,	Other:	and a second sec
Fina	al Approval by:	Date: 3/16/05
		Date:



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

PR Number: 22132		PE Number: 4368							
Date Received: 28 FEB 05	~ O	Permit Number: 05M-1209	2/11/10						
Permit Approved/Issued by:			Date Issued: 3/10/05						
MENUNCIA		Heelih Specialist							
NEW WELL	() SOIL BORINGS	WELL ABANDONMENT MW2	REPAIR						
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Site Address: 1096 OAK GRO	OVE RD, CONCORD		•						
APN: 129-170-017		Lot/Parcel #:							
Subdivision #:		Minor Subdivision #:							
DRI	LLER / CONSULTA	NT INFORMATION							
Driller: GREGG DRILLING	•	Contact Person: CHRIS PR	RUNER						
Phone #: 925-313-5800	•	FAX#: 925-313-0302							
Consultant: URS		Contact Person:	on:						
Phone #: 510-893-3600		FAX#:							
Li	EGAL OWNER I	NFORMATION							
Legal Owner Name: CONOCO	OPHILLIPS / LIZ SEWELL								
Owner Address: 76 BROADV	VAY								
City/State/Zip: SACRAMENT	D, CA 95818								
Phone #: 916-558-7604		Alternate Phone #:							
Contact the Contra Costa County Environmer prior to any drilling construction or destruction confirmation via telephone or fax. Well drillers must posses a valid C-57 license commencing with any well construction, destru	n of a well. Volce mail and must have on file a puction or repairs. Suction features are to be yed pursuant to County re	messages are not acceptate performance bond of \$5,000.00 installed and required water regulations within 30 days of contents.	ble. The appointment desk sends 00 with Contra Costa County before analyses completed within 30 days						
Final Approval by:	2 ,	Date: 3/17/0							



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

PR Number: 22133	1		PE Nun	nber: 4368					
Date Received: 28	FEB 05	-1	Permit	Number: 05M-121					
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Subdivision #:	•		Minor S	Subdivision #:					
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Driller: GREGG DI	RILLING		Contac	t Person: CHRIS F	RUNER				
Phone #: 925-313-	5800		FAX#: 925-313-0302						
Consultant: URS			Contact Person:						
Phone #: 510-893-	3600		FAX#:						
	LEC	AL OWNE	RINFORM	ATION					
Legal Owner Nam	e: CONOCOP	HILLIPS / LIZ SE	WELL						
Owner Address; 7	6 BROADWA	Y							
City/State/Zip: SA	CRAMENTO,	CA 95818							
Phone #: 916-558-	7604		Alterna	te Phone #:					
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2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

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Date Received: 28 FEB 05	110	Permit Number: 05M-1211	1 1/10/00						
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APN: 129-170-017	,	Lot/Parcel #:							
Subdivision #:		Minor Subdivision #:							
DRII	LER / CONSULTA	NT INFORMATION							
Driller: GREGG DRILLING		Contact Person: CHRIS I	PRUNER						
Phone #: 925-313-5800		FAX#: 925-313-0302							
Consultant: URS		Contact Person:							
Phone #: 510-893-3600		FAX#:							
LE	GAL OWNER	NFORMATION							
Legal Owner Name: CONOCC	PHILLIPS / LIZ SEWELL								
Owner Address: 76 BROADW	/AY								
City/State/Zip: SACRAMENTO), CA 95818								
Phone #: 916-558-7604		Alternate Phone #:							
Contact the Contra Costa County Environment prior to any drilling construction or destruction confirmation via telephone or fax. Well drillers must posses a valid C-57 license a commencing with any well construction, destruing WELL PERMIT CONDITIONS: 1. Proper annular seals and surface construing of commencing drilling. 2. Monitoring well/soll boring shall be destroy. 3. Other:	of a well. Voice male and must have on file a aution or repairs. In the section features are to be used pursuant to County	If messages are not accept performance bond of \$5,000 enstalled and required water regulations within 30 days or	table. The appointment desk sends 1.00 with Contra Costa County before er analyses completed within 30 days						
3. Other:		_							

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CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

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Date Received: 26 FEB 05	Permit Number: 05M-1213
Permit Approved/Issued by:	Date Issued.
	Environmental Manith Specialist
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Site Address: 1096 OAK GROVE RD,	CONCORD
APN: 129-170-017	Lot/Parcel #:
Subdivision #:	Minor Subdivision #:
DRILLER	CONSULTANT INFORMATION
Driller: GREGG DRILLING	Contact Person: CHRIS PRUNER
Phone #: 925-313-5800	FAX#: 925-313-0302
Consultant: URS	Contact Person:
Phone #: 510-893-3600	FAX#;
LEGAL	OWNER INFORMATION
Legal Owner Name: CONOCOPHILLI	PS/LIZ SEWELL
Owner Address: 76 BROADWAY	
City/State/Zip: SACRAMENTO, CA 9	5818
Phone #: 916-558-7604	Alternate Phone #:
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Final Approval by:	Date: 3/17/65



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Well Permit

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REGG DRILLING		Contact Person: CHRIS PRUNER				
925-313-5800		FAX#: 925-313-0302				
int: URS		Contact Person:				
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Appendix B Well Completion Reports and Well Logs

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Description & Remarks	Color	Consist	Soil Type	Depth (ft.)	Smpl	Well Construction	
ASPHALT AND FINE SAND	blk.	loose		 		·	
CLAY	BLK,	soft		 		·	
dank odor				5 			
slight odor		stiff					
no discernible odor	lt. grey				<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>		
KAPREALIAN ENGINEERING 535 Main Street		EXPLO	RATOR	Y BORIN	G LOG		
Martinez, CA 94553	M	Mobil Ser	vice	Station	#10-K	P4	
(415) 372-5444	Proje	ct No.		Date		ring	
	J86-	0713	9/1	7/86	No. MW-1		

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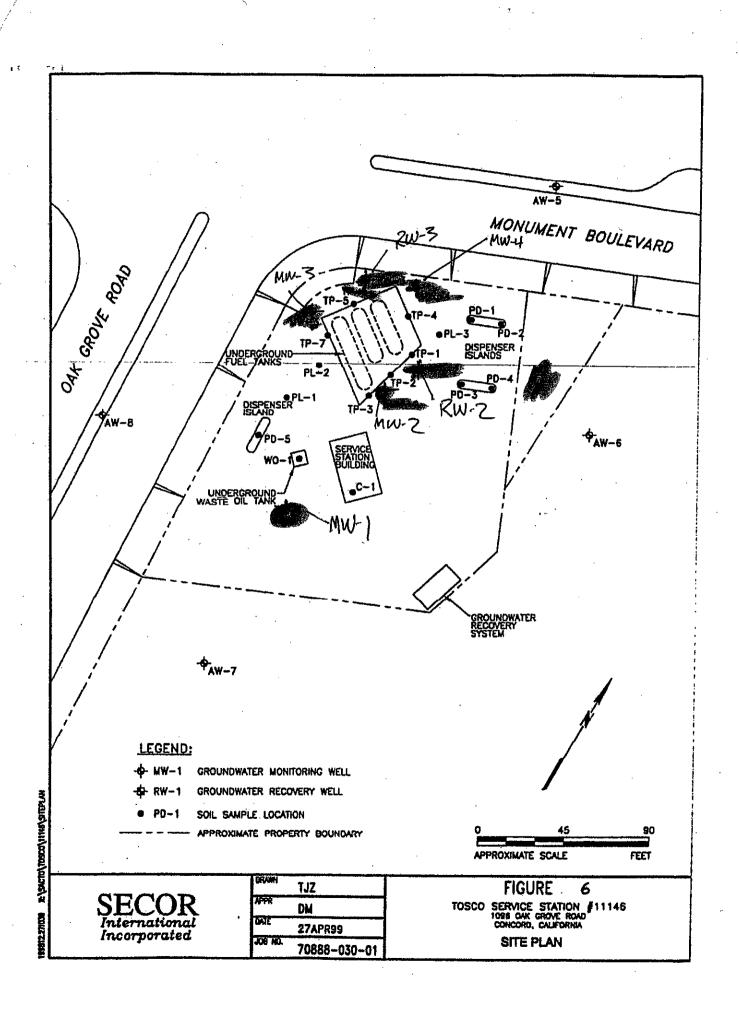
DRILL RIG HOLLOW STEM AUGER	ŀ	CE ELEVA		LOGGED BY Semansky				
DEPTH TO GROUNDWATER AS NOTED	1		ER	DATE DRILLED 9/6/86				
DESCRIPTION AND CLASSIF	ICATIO	N	Well					
Description & Remarks	Color	Consist	Soil Type	(ft.)	Smpl	Construction		
CLAY (as above)	lt. grey	stiff		 - 20 -				
	lt. brn.					:		
Total Depth 25 feet								
KAPREALIAN ENGINEERING 535 Main Street Martinez, CA 94553			·	Y BORIIN				
_		lobil Ser						
(415) 372-5444		ct No.		Date	Bo No	1		
	J86-0	713	9/	17/86		MW-1		

MONITOR WELL CONSTRUCTION

MOBIL GAS STATION

MW-I

Well completed to 25 feet in depth with 2-inch Class 160 PVC casing, flush-threaded joints. Screen (0.020-inch slot) set from 7 to 25 feet. Monterrey sand no. 6x12 placed from 4 to 25 feet. Concrete seal placed from 0 to 4 feet.



QUADRUPLICAT					******* *		OF CALIF		f	USE ON	LY	DO 1	NOT FILL IN
For Local Requi	rements				WELL	COMP		ON REPOI	RT	STATE V	VELL N	O./STAT	ION NO.
Owner's Well No	. AAIA	1-2	i ,					L9204			1 [1 1	
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Local Permit Ag		Cristic		- - 7 7	the Forpita	nor la	1 Hand	the Division	<u>.,</u>		PN/TRS	OTHER	
Permit No.	Page 371	5/2		1 F	Log Perm	it Date 🗾	10-05					·	
ORIENTATION (∠)	_X ve	RTICAL				ANGLE	_ (SPECIFY)	Name All	(CALAY	L OWNI	<u> </u>	1.1	Zartin L
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	1		11.3	<u> </u>			A BANK JAMA	Township 🗀 🗀	Range	Secti	on		
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	1		•				:	necessary. PLEASE	BE ACCURATE & CO	MPLETE.	<i>por</i> 19	_	
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	· · · ,	Explo	orato	ry Boring	Log
Projec KEI-P	t No. 87-1013	A .	Boring 8 in.	& Casing Diameter 2 in. csg.	Logged By JS
Projec	t Name		Casing	Elevation	Date Drilled
	#10-KP	4 Concord			3-25-88
Boring	No.		Hollow-	-stem Flight Auger	Depth to Groundwater
MW-2	<u> </u>		<u> </u>		15 feet
tion blows/f	level	Samples	itho— graphy SCS	. De	scription
		5	CH	ASPHALT & BASERO	grey 7.5 N3/, highly plastic, stiff,
	-	- 1	SC	CLAYEY SAND: dar 5GY 4/1, very well sorted, 1	k greenish grey fine grained, very ow plasticity clay
33	-		СН	CLAY: dark grey,	moderately plastic,
	₹ -	15 — s	SC SC	CLAYEY SAND: as	above
	-		CH	CLAY: dark grey plastic, dry	N4/, stiff to hard,
	<u> </u>			TOTAL DEPT	H 20 FEET

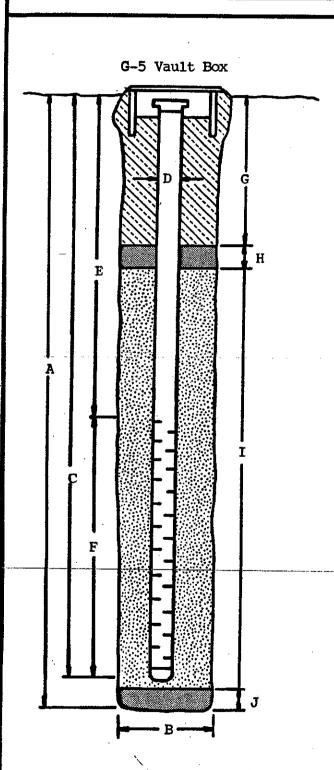
WELL DETAILS

PROJECT NAME: Mobil S/S #10-KP4 1096 Oak Grove BORING/WELL NO. MW-2

Concord, CA

PROJECT NUMBER: KEI-P87-1013A CASING ELEVATION:

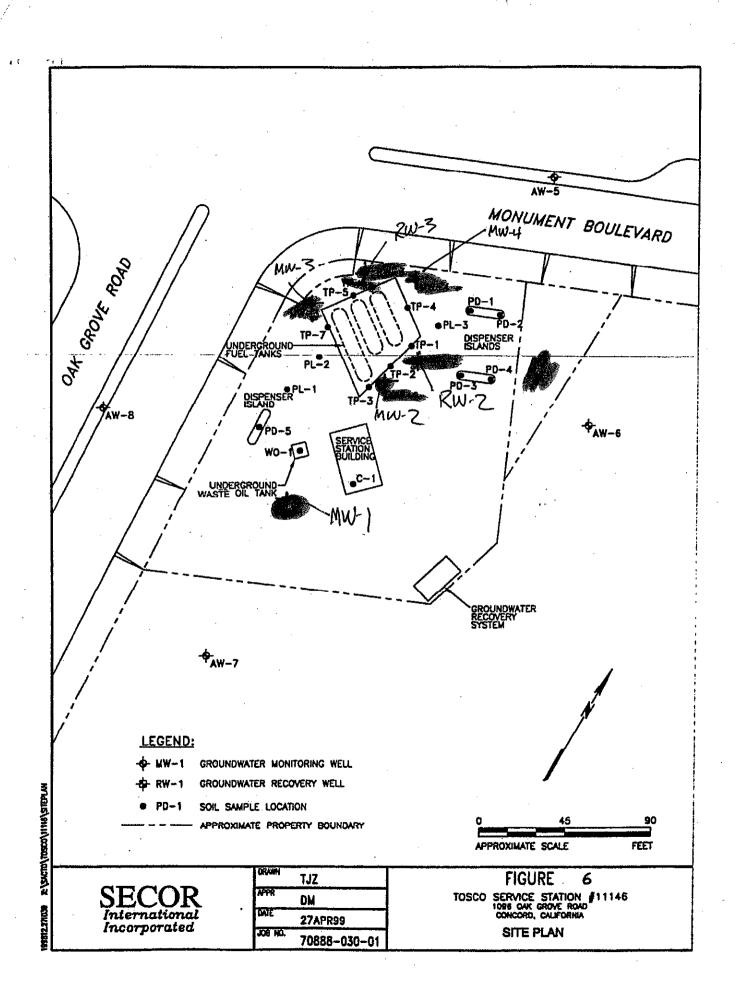
WELL PERMIT NO.: 88-0071 Contra Costa Co. Healthsurface ELEVATION:



- A. Total Depth: 20 feet
- B. Boring Diameter: 8 in. Drilling method: Hollow stem
- C. Casing Length: 20 ft. Material: Schedule 40 PVC
- Casing Diameter: 2 in.
- E. Depth to Perforations: 10 ft.
- F. Perforated Length: 10 ft. Perforated Interval: 20 to 10 ft. Perforation Type: slot Perforation Size: 0.020 in.
- G: Surface Seal: 7 to 0 ft. Seal Material: concrete
- H. Seal: 8 to 7 ft.

Seal Material: bentonite

- I. Gravel Pack: 20 to 8 ft. Pack Material: Monterey sand Size: 12 x 20
- J. Bottom Seal: none Seal Material:



QUADRUPLICAT For Local Requir					******* *			OF CALI			[- DWR US	E ONL	<u>Y –</u>	DO . I	NOT FILL IN
Page of	•	_			WELL			LLII struction		N REPOI		s	TATE W	ELL N		TON NO.
Owner's Well No	. <u>MW</u>	3					No			9203						
Date Work Began							7-05		_		.	LATITUDE	<u> </u>		L	ONGITUDE
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TOTAL DEPTH OF					<u>?_()</u> (Fee	et)				* May not be repr	resentative oj	f a well's lon	ig-term	yield.	, ,	
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ATTACH ADDITIONAL	INFORMATION	V, IF I	T EXIS	STS.	Signed	C-57 LI	GENSED WAT	ER WELL CO	NTRA	ACTOR		DA	re signed			C-57 LICENSE NUMBER
DWR 188 REV. 05-03		-1	FAE	DIT	IONAL SPAC	EIS	NEEDED.	USE NE	XT	CONSECUTIVELY	' NUMBERI	ED FORM				

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Explo	ratory	Boring	Log
Project No.	Boring & Casi	ng Diameter	Logged By
KEI-P87-1013A	8 in. 2 i	n. csg.	JS
Project Name	Casing Elevat		Date Drilled
Mobil #10-KP4 Concord			3/25/88
Boring No.	Hollow-stem F.	light Auger	Depth to Groundwater
MW-3			16 ft.
	tho-		
tion level Samples	graphy CS	De	escription
blows/ft US	US		
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17 - 15 - C		dark grey stiff, dr	N4/, moderately plas-
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	C CLAYE	SAND: as	above, wet
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c	CLAY:		own 10YR 5/3 in grey
20	V//A	5Y 5/1, p1	astic, hard, dry

<u> </u>	H	3.7			K. J.
		Expi	orato	ry Boring	Log
Projec	t No.		Boring	& Casing Diameter	Logged By
	87-1013	A			•
Projec			Casing	Elevation	Date Drilled
		Concord	ļ		3/25/88
Boring MW-3	No.		Hollow-	-stem Flight Auger	Depth to Groundwater
	G. W. D	epth (ft) I	itho-		
tion blows/f	level	Samples U	graphy ISCS	De	escription
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	l F				
]			mpler 20 to 21.5 ft.
	l			drive 2" sa	mpler 21.5 to 23 ft.
		· <u>-</u>		drive Terzo	gi 23 to 24.5 ft.
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WELL DETAILS

PROJECT NAME: Mobil S/S #10-KP4 1096 Oak Grove

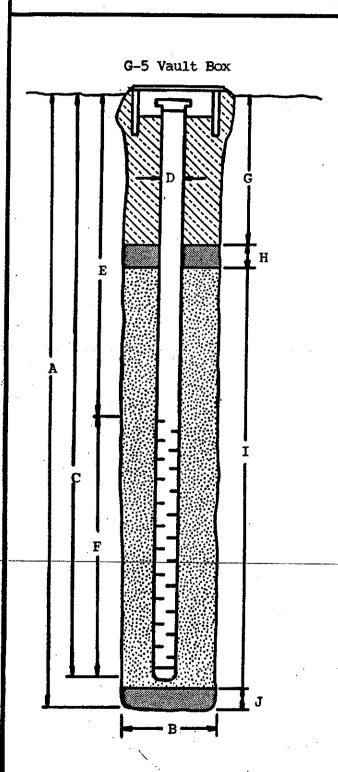
Concord, CA

BORING/WELL NO. MW-3

PROJECT NUMBER: KEI-P87-1013A

CASING ELEVATION:

WELL PERMIT NO.: 88-0072 Contra Costa Co. Health SURFACE ELEVATION:



- A. Total Depth: 24.5 ft.
- B. Boring Diameter: 8 in. Drilling method: Hollow stem
- C. Casing Length: 20 ft. Material: Schedule 40 PVC
- D. Casing Diameter: 2 in
- Depth to Perforations: 10 ft.
- F. Perforated Length: 10 ft. Perforated Interval: 20 to 10 ft. Perforation Type: slot Perforation Size: 0.02 in.
- G: Surface Seal: 7 to 0 ft. Seal Material: concrete
- H. Seal: 8 to 7 ft.

Seal Material: bentonite

- I. Gravel Pack: 20 to 8 ft. Pack Material: Monterey sand Size: 12 x 20
- J. Bottom Seal: 24.5 to 20 ft. Seal Material: bentonite

QUADRUPLICATION For Local Requi					WELL	STATE COMP	OF CALIF	ORNIA ON REI	PORT		USE	ONLY -	- <u>00 -</u> ı l	NOT FILL IN ——
Page of		٠.			***************************************	Refer to I	nstruction	Pamphlet			STA	TE WELL N	O./STAT	ION NO.
Owner's Well No), <u>MML-</u>	1		-, .			o. U9	19202	<i>}</i> a ·	LATI	TUDE			ONGITUDE
Date Work Began					****						1 1			1 1 1 1
Local Permit A	gency (, WWWnze.	07/	-{0 25	5 (4	CHAILCH BANG	it Dota 💝	tities of)1/151010	·			APN/TRS	OTHER	<u> </u>
Termit 140.	1000 J	GE.	οĹ	OGI	C LOG —	it Date	-10-52		<u> </u>	$$ $\mathbf{\hat{w}_{EL}}$	L OV	VNER -		
ORIENTATION (±)	Y VE	ERTICA G	L _		HORIZONTAL	ANGLE	_ (SPECIFY)	Name ////////////////////////////////////	$\omega \leftarrow \epsilon + \epsilon$	MAN A	Com	(Kyl	-1	ristic)
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a server	March 1966 S. M. S. M.	<u> </u>	4	*										DESTROY /Describe
	1 24	Manager !	est of		K (\ (\ \ (\ \) \)								7	DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"
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i	<u> </u>		*					1				,		Domestic Public Irrigation Industrial
	İ							WEST.		-		EAST		MONITORING 💥
	1 '				:								<u> </u>	TEST WELL
1	i				•			_					CATHO	DDIC PROTECTION HEAT EXCHANGE
<u> </u>	1 .			-:				-						DIRECT PUSH
	<u> </u>		-	:				1						INJECTION
'	 						1	-	- 1		•		VA	POR EXTRACTION
<u> </u>										SOUTH -			-	SPARGING
1	1					· · · · · · · · · · · · · · · · · · ·		Illustrate or L Fences, Rivers	Describe Dis s, etc. and a	tance of Well from ttach a map. Use a ACCURATE & CO	Roads, ddition	Buildings, il paper if		OTHER (SPECIFY)
1	J							necessary. PL	EASE BE A	ACCURATE & CO	OMPLE	TE.	_	
,	l I									EVEL & YIE				WELL
	1				·					ER <u> </u>) BELC	W SURFAC	Œ	
<u> </u>	!							DEPTH OF S WATER LEVI		(Ft.) & [ATF M	FASURED		
i	i	···-			*	·				(GPM)				
TOTAL DEPTH OF	BORING	~~2	\Diamond	(Feet)					_ (Hrs.) TOTAL DI				
TOTAL DEPTH OF	COMPLET	ED I	VEL	L _	(Feet)		* May not l	be represen	tative of a well'.	s long-	term yield.		
						CASING (S	\					ANTA	TIT AD	MATERIAL
DEPTH FROM SURFACE	BORE- HOLE	TY	ΈE	<u>(۲)</u>		CASING (8	/			DEPTH FROM SURFAC	;E	AINF		MATERIAL YPE
	- DIA.		Zi .	8 <u>4</u>	MATERIAL /	INTERNAL	GAUG					CE- BEN-		
Ft. to Ft.	(Inches)	BLANK	SCREEN CON.	DUCTOR FILL PIPE	GRADE	DIAMETER (Inches)	OR WA			Ft. to Ft.			E FILL	FILTER PACK (TYPE/SIZE)
		x	+	1		-296		_		- 1		(조)	<u>(스)</u>	
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ATTAC	HMENTS	(∠)	_		[tha	dareigned	ortifu Abort 1			ON STATEME		A 46		lan and ballar
⊥ Geolog	ic Log				i, the un	uersignea, ci	ermy that t	riis report is co	ombiete a	nd accurate to	ine be	stotmy k	knowled	ge and belief.
——— Well Co		-	1		NAME TE	RSON' FIRM 'RE'	CORPORATION	(TYPED OR PRINT	FD)	11111	44	Tegs		
·	sical Log(s)				11	11	イブ ・	THE OF THE	J.	3 11.	J		اً المار الم	e e e e e e e e e e e e e e e e e e e
	ter Chemica	-	/ses		ADDRESS	Here	Kol -				. 2		STATE	70 C/L 5
Other _					— III 🚚 📝	Z11.	-	· · ·		3111		.7	- (. 2.uir	WEAT E
ATTACH ADDITIONAL	INFORMATI	ON, IF	IT I	EXIST	S. Signed C-	57. LICENSED WAT	ER WELL CON	TRACTOR			DATE S	SIGNED		C-57 LICENSE NOMBER

	Exploratory Boring Log												
	· · · · · · · · · · · · · · · · · · ·	Explo	orat o	ry Boring	Log								
Projec			Boring	& Casing Diameter	Logged By								
	87-101	3A	8 in.	2 in. csg.	JS								
Project			Casing	Elevation	Date Drilled								
		P4 Concord			3-25-88								
Boring	No.		Hollow-	-stem Flight Auger	Depth to Groundwater								
MW-4					12 ft.								
Penetra- tion	G. W. I		itho-										
blows/ft		Samples U	graphy SCS	De.	scription								
			VIL CH	grey 5G4/1, we some fine sand CLAY: very dark moderately pla	LT: dark greenish ell sorted silt with d, semi-indurated grey 7.5YR N3/, astic, dry, stiff								
		10		faint odor	k greenish grey 5GY 4/1								
1 19				fine, well sor	ted sand, moderately strong odor, wet								
17		15	H W	CLAY: dark grey plastic, dry	N4/, hard, moderately								
·	-	20		TOTAL DEPTH	20 FEET								

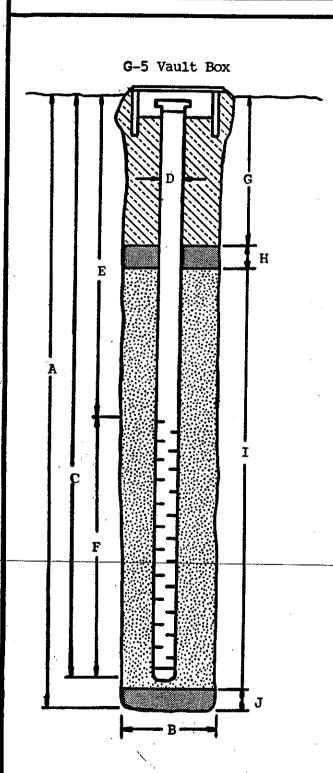
WELL DETAILS

PROJECT NAME: Mobil S/S #10-KP4 1096 Oak Grove BORING/WELL NO. MW-4 Concord, CA

PROJECT NUMBER: KEI-P87-1013A

CASING ELEVATION:_

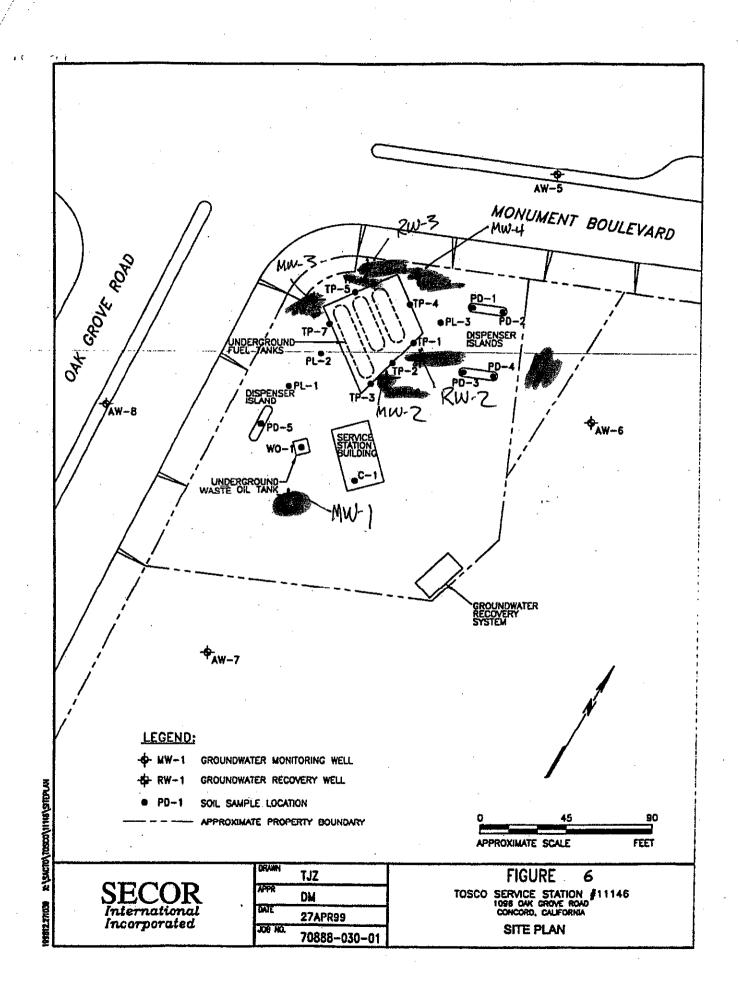
WELL PERMIT NO.: 88-0073 Contra Costa Co. Healthsurface ELEVATION:



- Total Depth: 20 ft.
- B. Boring Diameter: 8 in. Drilling method: Hollow stem
- C. Casing Length: 20 ft. Material: Schedule 40 PVC
- D. Casing Diameter: 2 in.
- E. Depth to Perforations: 10 ft.
- F. Perforated Length: 20 ft. Perforated Interval: 20 to 10 ft. Perforation Type: slot Perforation Size: 0.02 in.
- G: Surface Seal: 7 to 0 ft. Seal Material: concrete
- H. Seal: 8 to 7 ft.

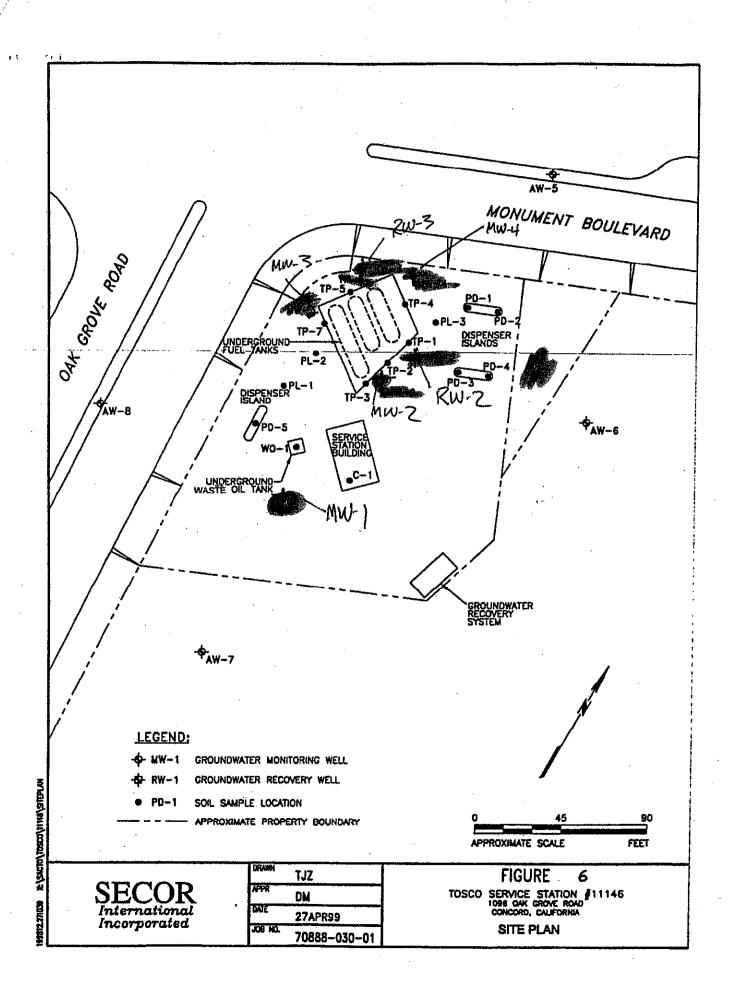
Seal Material: bentonite

- I. Gravel Pack: 20 to 8 ft. Pack Material: Monterey sand Size:___ 12 x 20
- J. Bottom Seal: none Seal Material:



QUADRUPLICAT For Local Requir Page of			WELL			ON REPO	RT L	E ONLY —		
Owner's Well No	DIN. 2		•			L9201			1 1	<u> </u>
Date Work Began	3-16-05	·	, Ended 🐾		₩.	L Wins Walls	LATITUDE		LON	GITUDE
Local Permit Ag		Insta		what Wer		Division		I + I + I	1.1	
Permit No.						A		APN/TRS	OTHER	
. 20111110117017		DLÓGIC		· · · · · · · · · · · · · · · · · · ·		4/07	WELL O	OWNER —		. <u> </u>
ORIENTATION (∠)	X VERTICAL	He	ORIZONTAL	ANGLE	_ (SPECIFY)	Name Atland	S. Mille M. S.	1411	bered:	10
	אוווומת נ		on Augr			Mailing Addres	Se III Se Marie	100	23.3.1.4.	
DEPTH FROM SURFACE	METHOD	ا المستقلة I	DESCRIPTION	FLUID <u>131 73</u> N	77	1. 4.75.	11/2/13/11		rA.	901.73
Ft. to Ft.	Descr	ibe mate	erial, grain si	ze, color, etc	20 N	CITY		~	STATE	ZIP
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l l	1					City Lo	, LAX			
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1	<u> </u>			spin veig.		APN Book	24 Page	Parcel	17	
	<u> </u>	ζ:	<u> </u>	< < ^ \ \	A Section	Township	Range	Section		
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		<u>(, </u>		Mark Same and	117	DEG.	MIN. SEC. DCATION SKETCH -	O Di		IIN. SEC. TVITY (∠) —
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ì	i /				· · · · · · · · · · · · · · · · · · ·					Deepen
i	<u> </u>			No.			,			_ Other (Specify)
, page 18	1.2	<u> </u>							<u>X</u> de	STROY (Describe
i	I A Comment		1/1/2				ť			cedures and Materials fer "GEOLOGIC LOG"
	123	<u>, (() ())</u>	<u> </u>				į		USES (<u>∽</u>)
		1/2) r.							WATER S	
i.	1	۱,۰			-	⊢		•		nestic Public pation Industrial
	1					WEST	·	EAST		MONITORING 🔀
1	i							ш		TEST WELL
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									H	EAT EXCHANGE DIRECT PUSH
l I	1 .									INJECTION
i	1								VAPO	R EXTRACTION
<u> </u>	1									SPARGING
i	!	···				Illustrate or Describ	e Distance of Well from Roa	ds, Buildings,	1	REMEDIATION
i	! !					Fences, Rivers, etc. of necessary. PLEASE	e Distance of Well from Roa and attach a map. Use additi BE ACCURATE & COMP	onal paper if LETE	70	THER (SPECIFY)
<u> </u>	I						ER LEVEL & YIELD		ETED V	VET T
<u> </u>	I T						WATER NA (Ft.) BE			YELL
	l T				· · · · · · -	DEPTH TO FIRST		LOW SURFAC	E	
1	! · · · · · · · · · · · · · · · · · · ·		*			WATER LEVEL	, (Ft.) & DATE	MEASURED _		
l .	1			··			* (GPM) &			
TOTAL DEPTH OF	BORING Z	<u>う</u> (F	eet) 25 (Feet			TEST LENGTH	(Hrs.) TOTAL DRAW	DOWN	(Ft.)	
TOTAL DEPTH OF	COMPLETED W	ÆLL	Z Z (Feet)		* May not be rep	resentative of a well's lon	g-term yield.		
	<u> </u>			OVEINO (6)			1	4.373		
DEPTH FROM SURFACE	BORE-	PE(≚)	<u>[</u>	CASING (S)	<u>'</u>		DEPTH FROM SURFACE	ANN		ATERIAL
		. <u>- (</u>	MATERIAL /	INTERNAL	GAUGE		I	CE- BEN-	TYP	·
Ft. to Ft.	DIA.	SCHEEN CON- DUCTOR FILL PIPE	GRADE	DIAMETER (Inches)	OR WAL		Ft. to Ft.	MENT TONITE	FILL	FILTER PACK (TYPE/SIZE)
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0 8	10 X		PVC	14	Shi		0 3	X		
8 23	10)	<u> </u>	PVI	4	Sch F	10 0.070	1	X	 	
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<u>X</u> Geologia				-s			$M \sim c I$	1	/ .	-7
· '	nstruction Diagram		NAME /	<i>LIGINAO A</i> ERSON, FIRM, OR O	CORPORATION)	(TYPED OR PRINTED)	99 Mrs Hogy	4 1.057	1546 f	JUI
l	sical Log(s)		Cirin	//	PI	,	$Z = M J_{\odot}$,	1/21	GINTY
Soil/Wat	er Chemical Analy	ses	ADDRESS	HONE	<u>ra</u>	garder w.	<i></i>	17	STATE	74777 7IP
•	Site Plan		-11 - ($\mathcal{M}_{\mathcal{F}}$		< 2			11	95115
ATTACH ADDITIONAL	INFORMATION, IF	IT EXISTS	SignedC-	57/LICENSED, WATE	R WELL CONT	RACTOR	DAT	E SIGNED	<u>-7</u> C-5	7 LICENSE NUMBER
				maryani = 7 T						

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	LO	TON G OF RINC	EX			NCE TORY		1		PROJECT NO CLIENTForme LOCATION109 LOGGED BY _G	WELL NO. RW-2				
	٠	FIEL	D SK	ETCH	HOF	BORING LOCAT	ION						Page 1 of 1		
		то	POF			GURE 2 ELEVATION 47	.45'			DRILLING METHOD HEX Hollow Stem Auger HOLE DIAM. 10" SAMPLER TYPE Split spoon CASING DATA 4" Sch. 40 PVC: 8' Blank, 15' Screen DRILLER Westex					
Ì	нĝ		Ŝ			uo			0	EPTH TO WATER	16.50'	13.22			
	BLOWS PER 1/2 FOOT (IN)	<u>(</u> ¥	грн-G (РРМ)	ш	ОЕРТН (FT)	Well		щ		ATE	10/31/91	11/07/9	1		
Ì	FOC	PID (PPM)	ភ្	SAMPLE	튽	nstr	ജ	PROFILE	Т	IME	1:30 PM	5:00 PN	1		
	BLC 1/2	OI4	占	SAI	DE	≱ૈંડ	SSS	Œ			DESCRIPTI	ON			
					-0										
					-	3-1	CL		\ _	ASPHALT 3"; F	ROAD BASE 3"				
					-2	4" dia.			1	silty CLAY: dark	brown, damp				
					4	Sch. 40 PVC	SM			silty SAND; gree	enish-gray, damp				
-	5,7,7			Ш	-6	Casing 🐰	GM				lark gray, wet; angular g very for sample presen				
I	7,8,13	200	6.8		-8					siltv CLAY: dark	greenish-gray, moist, v	erv stiff: some s	and		
1	4,5,8	125	7.2		- 10	4" dia. Sch. 40 PVC				_	greenish-gray, moist, s	•			
	7,15, 23	25	130		- 12 - - 14	0.020° slotting			¥	CLAY: dark gray	/ish-brown, damp, hard	; slight sand			
	7,9,9	50	2.3		- 16 -		CL		茎	SAME: become:	s very moist, very stiff;	with rootlets			
	10,12, 15				-18 - 20					sandy CLAY: gr organics	ay with rust-brown mott	ling, wet, very s	tiff;		
	5,5,9				-					SAME: stiff	•				
	5,7,11				- 22										
	7.10				24	End Cap					_				
	7,12, 13				- 26	<u> </u>									
	•			 					•	BOREHOLE TE	RMINATED AT 26.5 FE	EET BELOW GF	RADE		
				•						·					
		•				1									



QUADRUPLICAT				F CALIF			- DWR US	SE ONL	Y	DO N	OT FILL IN
For Local Requir	ements	WELL			ONREPO	ORT L	1. 1	TATE W	IELL NO	LICTATI	ON NO
Page of	1111.25		Refer to In	o. NG			. 1	IAIE W	ELL NO)./STAII	ON NO.
Owner's Well No.	7-11-56			. nai	19207		LATITUD	<u> </u>	l [_		DNGITUDE
Date Work Began		Ended	17.05	1 611	1	· [r ı l	1 1	I 1	1 3	
Local Permit Age	20003910/ms/M	- 1144 . j. c. j. j. c. s. 1764 D :	e not seek fall	- 117- 0	MAGICE DIM	<u> </u>		AI	N/TRS/	OTHER	
Fertilit No. 4.72	GEOLOGIC	LOG	t Date	11) ** [<u> </u>	. WELL	OWNE	в —		
ORIENTATION (∠)	∨	DRIZONTAL	ANCLE	_ (SPECIFY)	Name	620 M		Ash.	77		4.1
	DŘILLING 😀 👝	ιÂ	1	IA	Mailing Addr	900 LI 1- 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,	441 - 2	11.
DEPTH FROM SURFACE	METHOD D	ESCRIPTION			Da Paline	V39/		}		CA	90/273
Ft. to Ft.	Describe mate	rial, grain siz	ze, color, etc	<u> </u>	CITY (*)	1111	. WELL TA	NO ATTY	O NT	STA	ATE ZÎP
	For Attachea	Burn	Lagin	gard of garding	Address LOGI	2 Oals 1	WELL LO	ZA	<u> </u>		
i	·				City Cenz	and c					
1	· ·		1/2 Lun	Service James I.	County 🚣	Ave Det	est.	<u> </u>			
1	<u> </u>	211 115 V	The second second	The second second	APN Book	<i>179</i> ≧ Page	_17_	Parce	10	17-	
. 1				A Section of the sect	Township	Rang	e	Section	n		
!					DEG.	MIN. S	N EĊ.	Long		G. L	MIN. SEC.
<u> </u>						LOCATION S	SKETCH ·			- AC	CTIVITY (\(\sigma\)
			The state of the s		_	NORTH		`			IEM MELL
<u> </u>	The same of the factor of	W. James	7,5((1))	<i>V</i>	he a	Hoch	A 51.	Le			FICATION/REPAIR Deepen
ı		The same of the sa	No.			7	6.			-	Other (Specify)
7.00 A.M.	13XX 11X	12/10				1.1				\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	DESTROY /Deserba
	The second of the second	(\\\\)				* .				75	DESTROY (Describe Procedures and Materials Inder "GEOLOGIC LOG")
		>								USES	•
``*	No. 1 and Security () () ()									WATER	R SUPPLY
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I I	· · · · · · · · · · · · · · · · · · ·								_		TEST WELL
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											DIRECT PUSH
											INJECTION
<u> </u>										VAI	OR EXTRACTION
1	- · · - · · · · · · · · · · · · · · · ·				771	SOUTH		1 0 1			REMEDIATION
1 1					Illustrate or Descr Fences, Rivers, etc necessary. PLEAS	ribe Distance of c. and attach a m	Nell from Roa ap. Use addit	ds, Build ional par	lings, er if		OTHER (SPECIFY)
i				-		TER LEVEL					WELL
i					DEPTH TO FIRS	•	/ // (Ft.) BI	ELOW S	URFACE	Ē	
					DEPTH OF STATE WATER LEVEL _		_ (Ft.) & DATE	MEASU	JRED _		
. 1					ESTIMATED YIEL						
TOTAL DEPTH OF		eet)			TEST LENGTH _	(Hrs.) 1	TOTAL DRAW	DOWN_		(Ft.)	
TOTAL DEPTH OF	COMPLETED WELL	50 (Feet))		* May not be r	representative o	f a well's lor	ıg-term	yield.		
DEPTH			CASING (S))					ANN	ULAR	MATERIAL
FROM SURFACE	BORE- HOLE TYPE(ビ)			l .		FROM	EPTH SURFACE		111111		PE
		MATERIAL / GRADE	INTERNAL DIAMETER	GAUGE OR WAL				CE-	BEN-	- 11.1	FILTER PACK
Ft. to Ft.	SCREEN SCREEN PILL PIPE	GRADE	(Inches)	THICKNES		Ft.	to Ft.	(∠)	TONITE	FILL (ニ)	(TYPE/SIZE)
0 10	X 51	PV	6	50,40	5)		Es:	\ <u>\</u>		,	,
10 30	17 X	PVI	(_	1	0 0.530	A	5/		X		
		,				7	130			X	2/11. 2.1
i						30	35		X		
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l. 🗸	HMENTS (∠)	I, the un	dersigned ce	ertify that th	CERTIFITIES TO CERTIFIED TO	ICATION STA			mv kr	nowled	ne and helief
— Geologic	_			~.	f	4		4	y KI	, o medi	
1	nstruction Diagram	NAME (PE	<u> 付与いいのい</u> RSON, FIRM, OR C	CORPORATION)	(TYPED OR PRINTED)	1000)(- 	4	Aug Cons	1154	
ł	ical Log(s)	GEO	1)	RJ	·	2 -7	Mini	1 /		- 14 J	94563
	er Chemical Analyses	ADDRESS	Try				CITY	<u> </u>		STATE	ZIP
'	•	- Signed	<u> </u>	\mathcal{C}	()		per "		*	Y T	195/65
ATTACK ADDITIONAL I	INFORMATION, IF IT EXISTS.	C-!	57 LICENSED WATE	R WELL CONTI	RACTOR		DA	TE SIGNED			-57 LICENSE NUMBER

PRO	DJEC	TNO).:	30-00	085-10	DATE DRILLED:	. 8	3-11-	92	
	LOCA	TION	۷:	Form	er Mobil Station 04-KP4	LOGGED BY:		rim C	Protts	
		· <u>.</u>		1096	Oak Grove Boulevard	APPROVED BY:	F	₹. Lo	gan, RG	
				Conc	ord, California	DRILLING CO.:	V	Vest	Hazmat D	rilling
				grade)	DRILLING METHOD: 12-inch Hollow-Stem	Auger				
S EH	5	æ		¥.	SAMPLER TYPE: 2-inch Split-Spoon			l g		ELL
BLOWS PER 6 INCHES	CGI (ppm)	TPH (ppm)	SAMPLE	DEPTH (feet below g	TOTAL DEPTH: 35.0 feet DEPTH TO WAT	ER: 12.0 feet	က္က	GRAPHIC LOG	1	RUCTION
8 E	S	Ē	SA	(fæ	DESCRIPTION		nscs	GF.		
				-0			-	1000	0	Utility box with locking cap
	100	ND		E.	SAND: olive-green, damp (fill); trace angular pebbles	s.	sw		_	wording cap
	1			_						Concrete
				F			-			6-Inch-
	50			- 5	SILTY CLAY: dark gray, damp.				5—	diameter PVC casing
Push	50	1.8			Dark gray to greenish black, damp; trace sand.					
				E	Dan gay to geensi black, datip, vace sails.	v.				
6/10/12	60	150		- 10					10	
0.10.12	50	100		-	CLAY: dark greenish gray, damp; trace silt.					
				E			YY		耳目	
				-			CL		一量	
6/6/8			Ш	— 15 —	SILTY CLAY: medium brown to medium dark gray (no organic material, Fe oxide.	nottled), damp; trace			15 I	
				-					48	
				<u>-</u> .						No. 2/16 Monterey Sand
7/12/20				- 20	Medium brown (mottled), stiff, damp; trace Fe oxide.	-			20 🗆 🖽	Saliu
			Ш	-					一量量	
									当韻	
								m	40	6-Inch- diameter BVC casing
4/7/13				— 25 -					25—	PVC casing 0.020-inch slotting
					SANDY SILT: light brown, moderately dense, wet to a trace organic material.	saturated;	ML	\mathbf{IIII}	ヨ闘	
				-			ML		4	
				8	CI AVEV SII T. light brown to maderate velleys become		,		<u>"∃</u> ≣∃	End cap
3/3/8				-	CLAYEY SILT: light brown to moderate yellow-brown saturated; trace organic material.	, 			- 33333	
				<u> </u>	· · · · · · · · · · · · · · · · · · ·					Bentonite
				-	SILTY CLAY: moderate brown, stiff, wet, trace (1-2%)) organic material,	CL			
5/9/14			$ \neg $	35 	gravel (2-5%) to 5mm.			24	35	
			├┴┤	-					3	
				<u>-</u>					-	
				- - 1-49					49 49	
43074	ALTO)N		77						
		SCIER Inton, C			LOG OF EXPLORATOR	Y BORING			RW-	
					M				PAGE 1	UF 1

